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## Evaluating corrosion inhibition of Suprabha's Rustofilm versus VpCI-126

Background: DGP Hinoday needed a film that could inhibit corrosion. They wanted

to test which was a better corrosion inhibitor, Cortec's VpCI-126 or

Suprabha's Rustofilm.

**Purpose:** Evaluate corrosion inhibition of Suprabha's Rustofilm versus Cortec's

VpCI-126.

**Materials:** Carbon Steel Panels

VpCI-126 6 mil film, lot # 700210

Suprabha Rustofilm, 6 mil

Uncoated Polyethylene film, 6 mil (control film)

Perkin Elmer FT-IR 1000 Spectrometer

Razor Blade test kit

VIA test kit

**Method:** Razor Blade test

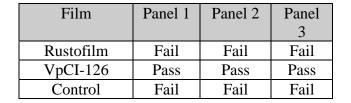
VIA test FT-IR test

**Procedure:** The above tests were performed according to standard procedures for

each.

**Results:** 

Razor Blade Test Performed on Carbon Steel Panels







## VIA Test

Film	Plug #1	Plug #2	Plug #3
Rustofilm	0	0	0
VpCI-126	3	2	3
Control	0	0	0

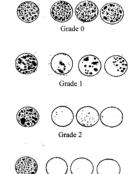
FT-IR results are attached at the end of the report.

## **Conclusion:**

- 1. Rustofilm did not exhibit any anticorrosion properties. It failed the razor blade and VIA tests. The FT-IR results showed an insufficient amount of corrosion inhibitor in the film.
- 2. VpCI-126 inhibited contact corrosion for steel and provided excellent vapor phase corrosion inhibition.

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VIA Test Grades (Grade 2 or 3 are passing)



Grade 1: Blind test
Minute corrosion inhibiting effect
Grade 2: Blind test
Medium corrosion inhibiting effect

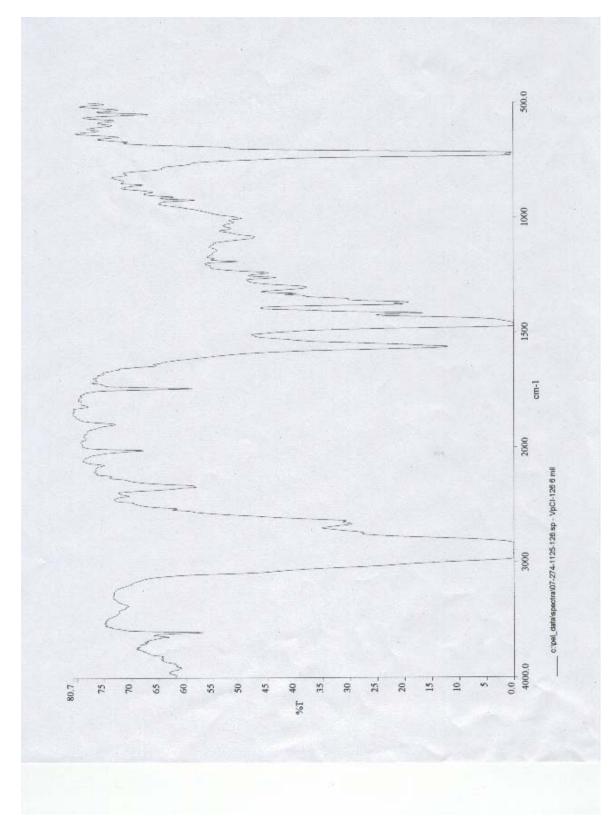
Blind test

Grade 3: Blind test

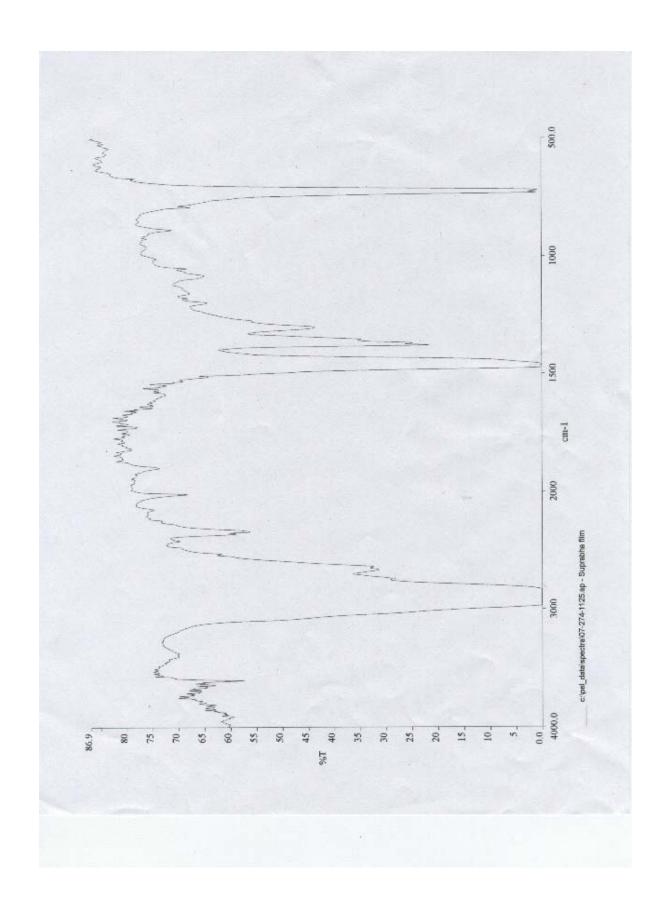
Grade 0:

Good corrosion inhibiting effect

No corrosion inhibiting effect



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